

Translation

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PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference W1.2132PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE2003/003474	International filing date (day/month/year) 20 October 2003 (20.10.2003)	Priority date (day/month/year) 19 October 2002 (19.10.2002)
International Patent Classification (IPC) or national classification and IPC B65H 23/00		
Applicant KOENIG & BAUER AKTIENGESELLSCHAFT		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 7 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 18 May 2004 (18.05.2004)	Date of completion of this report 22 March 2005 (22.03.2005)
Name and mailing address of the IPBA/EP	Authorized officer
Facsimile No.	Telephone No.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/003474

## I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

- ☐ the international application as originally filed.
- ☒ the description, pages 3-13, as originally filed,  
 pages 3-13, filed with the demand,  
 pages 1, 2, 2a, filed with the letter of 19 November 2004 (19.11.2004),  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the claims, Nos. \_\_\_\_\_, as originally filed,  
 Nos. \_\_\_\_\_, as amended under Article 19,  
 Nos. \_\_\_\_\_, filed with the demand,  
 Nos. 1-25, filed with the letter of 19 November 2004 (19.11.2004),  
 Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the drawings, sheets/fig 1/3-3/3, as originally filed,  
 sheets/fig \_\_\_\_\_, filed with the demand,  
 sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
 sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/DE 03/03474**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	1-25	YES
	Claims		NO
Inventive step (IS)	Claims	1-25	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-25	YES
	Claims		NO

**2. Citations and explanations**

An adjustable guide element as per the preamble of independent claims 1 and 2 is disclosed by, for example, DE-A-10115916.

The subject matter of claims 1 and 2 differs from the known guide element by the common feature that the diameter of the apertures is <500 µm and in each angular position of the guide element the fluid is discharged from the microapertures over the entire circumference of the guide element or is also discharged from areas not looped by the web.

The subject matter of claims 1 and 2 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention may therefore be considered that of providing a structurally simple guide element inclinable towards the web with a homogeneous air cushion and, at the same time, with low fluid losses.

The proposed solution consists in translating into practice the knowledge that, at a low volume flow,

microapertures <500  $\mu\text{m}$  in diameter generate a homogeneous fluid cushion, thereby rendering redundant elaborate structures for avoiding fluid losses in the area not looped by the web.

The known prior art documents, whether considered individually or taken in combination, could not suggest a subject matter with the features of claims 1 and 2 for the indicated purpose.

Claims 1 and 2 therefore involve an inventive step and meet, as do the advantageous developments shown in dependent claims 3-25, the requirements of PCT Article 33(1) to (4).